

INTERNATIONAL SEARCH REPORT

10/543131

International Application No

2004/010318

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F16B12/42 A47C5/04 F16B13/06

Rec'd PTO 22 JUL 2005

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F16B A47C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 018 250 A (COHAN MORRIS J) 22 October 1935 (1935-10-22)	1,3-6, 10,21, 23,25
Y	the whole document	15,17-19
Y	BE 513 190 A (DE CIRKEL N.V.) 19 March 1954 (1954-03-19) the whole document	15,17-19
A	US 4 761 093 A (SEYMOUR PAUL F) 2 August 1988 (1988-08-02) the whole document	1,10,15, 21,23,25
A	US 3 724 897 A (FAIKS F ET AL) 3 April 1973 (1973-04-03) cited in the application the whole document	1,10,15, 21,23,25

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

7 September 2004

Date of mailing of the international search report

15/09/2004

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

US2004/010318

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2018250	A	22-10-1935	NONE	
BE 513190	A		NL 163580 B	
US 4761093	A	02-08-1988	US 4692055 A	08-09-1987
US 3724897	A	03-04-1973	CA 946724 A1	07-05-1974
			CA 962937 A2	18-02-1975
			CA 988832 A2	11-05-1976
			US 3838884 A	01-10-1974